

Product datasheet for **MC205249**

Stra6 (NM_009291) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Stra6 (NM_009291) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Stra6
Synonyms:	A1891933
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC075657
 CTGGACTCAGTACAATTCATCAGGCGATACCCCCCTGGGAGTGATGGATAGTGACAAATGAGGGAAGAAG
 AGCTGGAGCATGGAGTCCCAGGCATCTGAGAAATGGAAGCCAGACCTCCTCCGGGGTGACAGATGACTACA
 GCAGCTGGTACATCGAGGAACCTCTAGGAGCTGAGGAGGTGCAGCCAGAGGGGGTGATCCCCTTTGCCA
 GCTCACCGCACCCCCTGCCCTGCTCCATGCCTGCCTGGCTTCACTGTCTGTTTCTGGTCTGCTGCTGCTG
 GCCTTGTGGTGAGACGGCGCAGGCTTTGGCCACGCTGTGGTCATCGCGGACTTGGACTGCCAGCCCTG
 TGGATTTCTTGGCTGGGACCTATCCTGGACAGTGCCTGCTGCTGCTTTTGTGGTCTCTCAGCAACCT
 ATGCCTGTTGCTCCCTGATGAGAACCACCTGCCTTTCCTGAACCTCACTGCAGCATCAAGTCCAGATGGA
 GAGATGGAGACATCAAGAGGGCCCTGGAAGCTACTGGCTCTGCTCTACTATCCAGCCCTCTATTACCCTC
 TGGCTGCTTGTGCTTCGGCAGGGCACCAAGCTGCATTTCCTATTGGGTAAGTGTGTTATCTTGGGCCACTT
 TGGTGTTCAAGTCTGGCAGAAAGCTGAGTGTCTCAGGATCCTAAGATCTACAAGCACTACTCCTTGTG
 GCCTCCCTGCCTCTACTTCTGGTCTTGGATTCTGAGCCTTTGGTATCCAGTACAACCTGTGCAGAGTC
 TCCGTACCCGACAGGAGCAGGCTCCAGGGGCTGCAGACCAGCTACTCCGAGAAGTATCTGAGAACTCT
 TCTCTGCCAAAGAAGTTGGATAGCTGCTCCATCCTGCCTCAAAGCGTAGCCTCCTGTCTCGGGCCTGG
 GCCTTCTCCCATATTCCATCTACTCCACAGCCAGGATTCCGCTGCCCTTGAAGCTGGTGTATCTCGG
 CCACCCTGACAGGAACAGCCACTTACCAGTGGCCCTGCTGCTGCTGGTGAAGCTGGTGCCTACTGTGCA
 GAAGGTGAGGGCGGGGATCAACACAGATGTCTCTACCTGCTGGCTGGCTTTGGGATCGTCTCTGAA
 GACAGGCAGGAGGTGGTAGAGCTGGTGAAGCATCACCTATGGACTGTGGAAGCATGCTACATCTCAGCTC
 TGGTCTTGTCTCGCATCAACCTTCTGCTCCTGATCCGATCCCTGAGGACACACAGGGCCAATCTTCA
 AGCACTACACCGAGGGGCTGCCCTGGATCTGGACCCCCCTTTCAGAGTATTATCCCTCTCGCCAAAGCC
 ATAGTCAGCTGGATGAGCTTCTGTGCCTACCAGACGGCCTTCACTGCCTTGGGCTCCTGGTGCAGCAGG
 TCATCTTCTTCTTGGGGACCACATCCCTGGCCTTCTGGTGTGTTTGTGCCTTACTGCATGGCAGGAACCT
 CCTGCTGCTGCGATCCCTGGAATCCACGTGGCCCTTCTGGTGAAGTGTGGCTTACTGTAAATCTGCAG
 AACATAGCAGCCAACCTGGATCTTCTGAGGACTACCATGGATACCCAGAGCTGACCAACCGCGCATGC
 TCTGCGTAGCTACTTTTCTCTCTTCCCATCAACATGCTGGTGGGAGCCATAATGGCTGTCTGGCGGGT
 GCTCATCTCTTCTCTACAACACTGTTACCTCGGCCAGATGGACCTCAGCCTGCTGCCGAGAGGGCA
 GCCTCCCTGGATCCAGGCTACCACACATACAAAACCTTCTGAGGATTGAGGCCAGCCAGTCACATCCAG
 GAGTCATAGCCTTCTGTGCCCTGCTCCTCCATGCTCCAAGTCCACAGCCCCGGCCCCATTGGCCCTCA
 GGACAGCCTCAGGCCGCGAGAAGAAGAAGGATGCAGTTGCTACAGACCAAGGACCTGATGGCCAAG
 GGAGCAGGACACAAGGCAGCCAGAGCAGGGCCGCTGGGGTCTGGCCTACACATTGCTCCACAATCCAA
 GCCTACAGGCCTTCCGGAAGGCAGCCCTTACTAGTGCCAAGGCCAATGGCACCCAGCCCTGAGGGTGAAG
 AAAACCACATCACCTGCCTTATGTGCTGAGGCACATTCTGTCTCCATCCTCCTCCATTCATGTC
 TGCAACCCCTCGCCCCAGCAGCAGCTCTGCCAGCCAGCTGATCCCTGTGGGATCAGGGGACTGGAGTCA
 CTGTGTCTACACCACAGCTTCTAGAGGAATTTGGTCTATGCTTGTCCACCAGGCTACCAGCTAGGGCTC
 TAGAGAAAGCAGCTAGTGGTTTCTTTGTCTTGGAACAGGCAGGGTAAGGGTGGGCACATTAGGCCCTCT
 CTCTCACACTGGCCCTGCCATCAGCTTTTGGGCCTCAGCAAGGCCTCTTTTCTCCCCGTTGGTGATG
 AAAGGCCTGAATATCTCCCATCCCAGCTGGCCCCACCTCAGCCCCAGCCCTCCACCATGAAAGTGGAA
 CTGTGTGGGCTTCTCTCTGCCCCAGATCTCCTTCTCTCTCTTCTTCCACTCCCAGCCCTTCTCT
 GCAGCCAAGTCAGACTCCAAGAGGCCCACTGAGCTGCCCTCTCAAAAACAGATTTTTTTTTGTAGTT
 TTAATGCCATTAGTTGTATGAAAGAAGTTAGTGTGCTCTCTGTAATAAATGTGCCTCTGAGGAAAAAAA AAAAAAAAAAAAA

Restriction Sites: Ascl-NotI

ACCN: NM_009291

Insert Size: 2013 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	BC075657 , AAH75657
RefSeq Size:	2743 bp
RefSeq ORF:	2013 bp
Locus ID:	20897
UniProt ID:	O70491
Cytogenetics:	9 B
Gene Summary:	<p>Functions as retinol transporter (PubMed:23839944, PubMed:24852372). Accepts all-trans retinol from the extracellular retinol-binding protein RBP4, facilitates retinol transport across the cell membrane, and then transfers retinol to the cytoplasmic retinol-binding protein RBP1. Retinol uptake is enhanced by LRAT, an enzyme that converts retinol to all-trans retinyl esters, the storage forms of vitamin A (By similarity). Contributes to the activation of a signaling cascade that depends on retinol transport and LRAT-dependent generation of retinol metabolites that then trigger activation of JAK2 and its target STAT5, and ultimately increase the expression of SOCS3 and inhibit cellular responses to insulin (PubMed:21368206, PubMed:23839944). Important for the homeostasis of vitamin A and its derivatives, such as retinoic acid and 11-cis-retinal (PubMed:22467576, PubMed:24852372). STRA6-mediated transport is particularly important in the eye, and under conditions of dietary vitamin A deficiency (PubMed:22467576, PubMed:23839944, PubMed:24852372). Does not transport retinoic acid (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1-4 encode the same protein.</p>